



SERDI

3.5

High precision valve seat and valve guide cutting machine especially designed for multi-valve cylinder heads. Patented workhead with triple air-float, patented centering system and built-in spindle motor.

Perfect machine for the most demanded motorcycle and automotive multi-valve cylinder heads. Achieves excellent levels of concentricity even in guide sizes as small as 3 mm/0.12".



Machining capacity from 16mm to 70mm / 0.6" to 2.75".

Patented lightweight workhead : built-in spindle motor and triple air-float centering system. Minimal workhead inertia and maximum floatation for unmatched centering sensitivity.

Fully integrated spindle motor, variable speed from 100 to 1200 RPM, paired to a 1.5 kW Siemens inverter.

Forward and reverse directions. Extremely wide torque ratings from lowest RPM with constant torque spindle rotation.

Digital spindle speed rotation and machining depth read out.

Modern modular machine bed design for improved rigidity, using iron casting parts to get chatter free valve seat machining.

Manual front-to-back displacement of the cylinder head with pneumatic locking.

Available with a dedicated tool bit sharpener and a 360° roll over fixture.

LED worklight.

Supplied with the new SERDI tooling that decreases the cutting force by 30%, this machine will cut the hardest seats.

TECHNICAL FEATURES

Space requirements

Length (standard)	mm / inch	1690/66.5
Width	mm / inch	1050/41.3
Height	mm / inch	2170/85.4

Max cylinder head dimensions

Length	mm / inch	1200/47.2
Width	mm / inch	500/19.7
Height	mm / inch	450/17.7
Crosswise work piece tilting	degrees	+42° to -15°

Table travel

mm/inch 160/6.7

Machining capacity Ø min - max

mm 16 to 70
inch 0.6 to 2.75

Workhead travel

Lengthwise (standard)	mm / inch	930/36.6
Crosswise	mm / inch	50/1.97
Sphere-cylinder travel	mm / inch	14/0.5

Spindle

Max. spindle inclination	degrees	5
Spindle travel standard	mm / inch	240/9.4
Spindle motor power	KW / HP	1.2 / 1.6
Spindle inverter power	KW / HP	1.5 / 2
Spindle rotation speed	RPM	100 to 1200

Connections

Power supply	2.5kVA-230V-AC-1Ph-50/60 Hz
Pneumatic supply	bar / psi 6/87
Max. air flow	l/mn -CFM 400/15
Noise level at 400 RPM	DbA 72
Noise level at 1200 RPM	DbA 82
Net weight approx.	kg / lbs 1085/2362

BASIC EQUIPMENT

Clamping system kit 020646

011915	Universal quick clamp x 2
010416	Short clamping bar x 2
011425	Clamping block x 2
013958	Tilting fixture
010434	2 Parallels 30x50x242 mm (1.18x1.97x9.53in)
017577	2 Parallels 20x38x300 mm (0.78x1.5x11.8in)
009796	Set of 6 long spins
017576	Set of 6 short pins

Accessories kit

405882	Magnetic depth stop
014240	Tool cart
010119	Carbide bit sharpener
405580	Tool setting device SERDI 4200
304697	Set of 7 pads

